

METHOD OF PRODUCING CATHODE MATERIAL FOR LITHIUM SECONDARY CELL

ABSTRACT

A positive plate material for lithium secondary cells stably exhibiting excellent performance including the cell initial capacity, cycle characteristics, and the safety. The material is produced by dripping an aqueous solution of a salt (e.g., cobalt sulfate) of a doping element (e.g., a transition metal, an alkaline metal, an alkaline-earth metal, B, or Al) into an alkaline solution, a carbonate solution, or a hydrogencarbonate solution in any one of which a compound (e.g., manganese oxide) of a metal (Mn, Co, Ni, or the like) which is the major component of the positive plate material so as to precipitate the compound of the doping element on the major component compound and to cover the major component compound, mixing the major component compound covered with the doping element with a lithium compound (e.g., lithium carbonate), and firing the mixture.